Molecular analysis of lipid macroamphiphiles by hydrophobic interaction chromatography
W. Fischer (*Germany*) 129

A membrane-inlet mass spectrometer miniprobe for the direct simultaneous measurement of multiple gas species with spatial resolution of 1 mm
D. Lloyd, K. Thomas, D. Price, B. O'Neil, K. Oliver and T.N. Williams (*UK*) 145

Combined lipid/DNA extraction method for environmental samples
S.R. Kehrmeyer, B.M. Applegate, H.C. Pinkart, D.B. Hedrick, D.C. White and G.S. Sayler (*USA*) 153

Surface-active exolipids: analysis of absolute chemical structures and biological functions
T. Matsuyama and Y. Nakagawa (*Japan*) 165

Simultaneous estimation of microbial phospholipid fatty acids and diether lipids by capillary gas chromatography
P. Virtue, P.D. Nichols and P.I. Boon (*Australia*) 177

Heterogeneity of lipopolysaccharides of *Neisseria meningitidis* revealed by thin-layer chromatography combined with monoclonal antibodies
S.R. Andersen, K. Bryn, K. Thorseng and E. Jantzen (*Norway*) 187

Announcement 195

No. 3, June 1996

The influence of substrate on siderophore production by fish spoilage bacteria
L. Gram (*Denmark*) 199

Temperature gradient incubator for the study of alterations occurring with fatty acids of *Saccharomyces cerevisiae* when approaching extreme growth temperatures
M. Suutari, K. Liukkonen and S. Laakso (*Finland*) 207

Comparison of arbitrarily-primed polymerase chain reaction, restriction enzyme analysis and pulsed-field gel electrophoresis for typing *Clostridium difficile*
M.H. Samore, M. Kristjansson, L. Venkataraman, P.C. DeGirolami and R.D. Arbeit (*USA*) 215

Recommendations for calculating growth parameters by optical density measurements
C. Begot, I. Desnier, J.D. Daudin, J.C. Labadie and A. Lebert (*France*) 225

One-step metal-affinity method for the purification of the iron-binding protein Fbp of *Neisseria meningitidis*
L. Ferrón, M. Pintor, J.A. Gómez, M.T. Criado and C. Ferreirós (*Spain*) 233

Evaluation of immunomagnetic separation in combination with modified semi-solid Rappaport Vassiliadis medium and Rambach agar for the isolation of *Salmonella*
C. Poppe, L.A. Elliott and C.L. Duncan (*Canada*) 237

Application of head-space solid-phase microextraction for the analysis of volatile metabolites emitted by *Penicillium* species
T. Nilsson, T.O. Larsen, L. Montanarella and J.Ø. Madsen (*Denmark, Italy*) 245

A simple membrane filtration-elution method for the enumeration of F-RNA, F-DNA and somatic coliphages in 100-ml water samples
L.W. Sinton, R.K. Finlay and A.J. Reid (*New Zealand*) 257

A modified MacConkey medium which allows the recognition of Enterobacteriaceae from other Gram-negative bacteria on primary culture plates
R. Pompei, F. Berlutti, M.C. Thaller, A. Ingianni and G. Satta (*Italy*) 271

Improved soil dispersion procedures for total bacterial counts, extraction of indigenous bacteria and cell survival
V. Lindahl (*Norway*) 279

Cloning and expression of human defensin HNP-1 genomic DNA in *Escherichia coli*
H. Takemura, M. Kaku, S. Kohno, H. Tanaka, R. Yoshida, K. Ishida, R. Mizukane, H. Koga, K. Hara, T. Usui and T. Ezaki (*Japan*) 287

Determination of intermediary metabolites in *Aspergillus niger*
G.J.G. Ruijter and J. Visser (Netherlands) 295

Detection of *Haemophilus influenzae* and *Haemophilus parainfluenzae* from body fluids in blood culture bottles
A. Pennekamp, R. Zbinden and A. von Graevenitz (Switzerland) 303

Quantitative determination of *Escherichia coli* in water using CHROMagar® *E. coli*
J.L. Alonso, I. Amoros, S. Chong and H. Garelick (Spain, UK) 309

Computerised gas-liquid chromatography of bacterial cellular fatty acids in analysis of bacterial mixtures
L. Lehtonen, R. Peltonen and E. Eerola (Finland) 317

The validity of Western blotting for the diagnosis of bacterial kidney disease based on the detection of the p57 antigen of *Renibacterium salmoninarum*
D. McIntosh and B. Austin (UK) 329

Soluble, dye-labelled substrates for a micro-plate assay of proteinase activity
G.A. Wolf and S.J. Wirth (Germany) 337

Electrotransformation of *Xanthobacter autotrophicus* GJ10 and other *Xanthobacter* strains
J. Swaving, W. van Leest, A.J.J. van Ooyen and J.A.M. de Bont (The Netherlands) 343

A general procedure for the isolation of heat-shock proteins from periodontopathogenic bacteria
D. Hinode, D. Grenier and D. Mayrand (Canada) 349

Announcements 357

Author Index of Volume 25 361

Subject Index of Volume 25 364

Contents of Volume 25 366